



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 18] तद्दि विल्ली, शनिवार, मई 5, 1979 (वैसाख 15, 1901)
No. 18] NEW DELHI, SATURDAY, MAY 5, 1979 (VAISAKHA 15, 1901)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—पार्ट 2

PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 5th May 1979

CORRIGENDA

(1)

In the Gazette of India, Part-III, Section-2 dated the 9th December 1978 under the heading "Name Index"—

at page 852, column 1

for Antonov, J.F. read Antonov, J.F.

at page 852, column 2

DSO "Chorna Metalurgia" read DSO "Chorna Metalurgia"

at page 853, column 1

After E. I. Du Pont De Nemours and Company

Delete the entry E.R. Squibb & Sons Inc 678/Cal/78.

for Kadi—Ogly, O.A. read Kadi—Ogly, I.A.

at page 853, column 2

After Maruzen Oil Co., Ltd. Delete the entry 1000/Cal/78, 1061/Cal/78

Against Maschinenfabrik Augsburg—Nurnberg Aktiengesellschaft add 1000/Cal/78 and 1061/Cal/78.

for Proizvodstvenoe Obiedinenie "Uralelektrotyazhmarsh" and
read Proizvodstvenoe Obiedinenie "Uralelektrotyazhmarsh"

at page 854, column 1

for Societa Nazionale Industria Applicazioni Viscosa S.p.A.

read Societa' Nazionale Industria Applicazioni Viscosa S.p.A

1-47GI/79

(2)

In the Gazette of India, Part III, Section 2, dated the 3rd February 1979 under the heading "Name Index"—

at page 83, Column 1.

for Bogatzki, H-U (Hans—Alrich)

read Bogatzki, H-U (Hans—Ulrich).

at page 84, column 2

for Ravlgon Sugar Farm Limited, The

read Ravlgon Sugar Farm Limited, The.

for Schwiter Engineering Works Ltd.

read Schweiter Engineering Works Ltd.

for Seigal, O.P. (apt.)

read Sehgal, O.P. (Capt.)

for Siemens Aktiengesellschaft

read Siemens Aktiengesellschaft.

for Specberg, L.R.

read Sperberg, L.R.

for Vereinigte Oesterreichische Eisen Und

Stahlwerke—Alpine Montan Aktiengesellschaft.

read Vereinigte Oesterreichische Eisen Und

Stahlwerke—Aline Montana Aktiengesellschaft.

at page 85, column 1.

for Walmbe, B.B.—309/Mas/78.

read Walimbe, B.B.—309/Bom/78.

(3)

In the Gazette of India, Part-III, Section-2, dated the 17th March, 1979 under the heading "Name Index"

at page 171, column 1.

for Beloit Walmsley Limited

read Beloit Walmsley Limited and
insert the entry (Beloit Walmsley Limited).
after Beloit Corporation.

Against Burroughs Corporation for No. 1228/Cal/78.

read 1222/Cal/78.

Against Combustion Engineering Inc. for No. 1204/Cal/78
read 1240/Cal/78.

for Franz Plasser Bahn-baumaschinen-Industrie-gesellschaft
M.h.H.

read Franz Plasser Bahn-baumaschinen-Industrie-gesellschaft
m.b.H.

at page 171, column 2.

for Hollandse Signaalapparaten B.V.

read Hollandse Signaalapparaten B.V.

at page 172, column 1.

Against Modipon Limited for No. 198/Del/78.

read 798/Del/78.

After Nisseki House Industry Co. Ltd.,

Delete the double-entry Nitto Boseki Co. Ltd. 1257/Cal/78
and Insert Nitro Nobel AB 863/Del/78.

at page 172, column 2.

for entry S.A. Manganese Amcor Limited (Samanoor) 833/
Del/78.

read S.A. Manganese Amcor Limited (Samancor)-853/
Del/78.

at page 173, column 1.

for entries Societe Civile DE Recherches ET D Application-
807/Del/78. and Scientifiques (S.C.R.A.S.)-851/Del/78.
read Societe Civile DE Recherches ET D' Applications.

Scientifiques (S.C.R.A.S.)-807/Del/78, 851/Del/78.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed
under Section 135 of the Act.

29th March, 1979

307/Cal/79. Lilly Industries Limited. Fungicidal formulations. (April 1st, 1978).

308/Cal/79. Snia Viscosa Societa' Nazionale Industria Appli-
cazioni Viscosa s.p.a. Device for the continuous
spinning of viscose rayon.

309/Cal/79. Inco Limited. Production of metal and alloy
granulates. (April 17, 1978).

310/Cal/79. National Research Development Corporation
Multi-dimensional display equipment.

311/Cal/79. Wyler AG. Spirit level.

312/Cal/79. Voest-Alpine Aktiengesellschaft. Support frame
for galleries or tunnels.

313/Cal/79. Voest-Alpine Aktiengesellschaft. Device for
supporting a gallery or a tunnel.

30th March, 1979

314/Cal/79. Snia Viscosa Societa' Nazionale Industria Appli-
cazioni Viscosa s.p.a. Process for the dissolution
of cellulose in organic solvents, solutions obtained
by said process, and process for the production of
formed bodies of regenerated cellulose from said
solutions.

315/Cal/79. Labofina S.A. Process for preparing polymer-
reinforced styrenic resins.

316/Cal/79. Bartin Limited. Wire gripping devices. (March
30, 1978).

317/Cal/79. Union Carbide Corporation. Preparation of
ethylene copolymers in fluid bed reactor.

318/Cal/79. Union Carbide Corporation. An article molded
from ethylene hydrocarbon copolymer.

319/Cal/79. Union Carbide Corporation. Process for making
film from low density ethylene hydrocarbon
copolymer.

320/Cal/79. Union Carbide Corporation. Polymerization
catalyst process for preparing and use for ethy-
lene homopolymerization.

321/Cal/79. Union Carbide Corporation. Impregnated poly-
merization catalyst, process for preparing and use
for ethylene copolymerization.

322/Cal/79. Union Carbide Corporation. Preparation of
high density ethylene polymers in fluid bed re-
actor.

323/Cal/79. Union Carbide Corporation. Process for the
preparation of high density ethylene polymers in
fluid bed reactor.

324/Cal/79. Omark Industries, Inc. Rail fastener. (April 14,
1978).

31st March, 1979

325/Cal/79. Vickers Shipbuilding Group Limited. Winch
Mechanisms. (April 4, 1978).

326/Cal/79. Schubert & Salzer Maschinenfabrik Aktiengesell-
schaft. Method and apparatus for the mainte-
nance of a number of spinning stations.

2nd April, 1979

327/Cal/79. S.E.P.M. Societe D'Exploitation Des Procedes
Marechal. Novel end-pressure connecting device.

328/Cal/79. Diamond Shamrock Corporation. Agglomera-
tion process of chemically and/or biologically
active substances.

329/Cal/79. V. I. Koshman, (2) V. F. Petrichenko and P. V.
Kamshitsky. Electric circuit switching device.

3rd April, 1979

330/Cal/79. Cummins Engine Company, Inc. Seal construc-
tion.

331/Cal/79. Aktiebolaget IRO. A thread storage and supply
device for textile machines.

332/Cal/79. Nitrokemia Ipartelepek. Process for the prepa-
ration of herbicidally active compounds contain-
ing phosphorus-carbon-nitrogen bond.

333/Cal/79. Mitsui Toatsu Chemicals, Incorporated. Oxida-
tion-reduction reagents for a wet de-sulfurization
process and a process for preparing same.

334/Cal/79. Bharat Electronics Limited. Coolanar electrode
structure for flat gaseous plasma display.

4th April, 1979

335/Cal/79. Maschinenfabrik Augsburg-Nurnberg Aktiengesell-
schaft. Fuel injector for internal combustion
engines.

336/Cal/79 Vickers Shipbuilding Group Limited Winch mechanisms (April 4, 1978)

APPLICATION FOR PATENTS FILED AT THE
(DELHI BRANCH)

19th March, 1979

179/Del/79 Girling Limited Improvements in disc brakes for railway vehicles (April 8, 1978).

180/Del/79 Societe Des Electrodes ET Refractaires Savoie (SERS) Carbonaceous paste for cold shaping

181/Del/79 S K Arya An apparatus

20th March, 1979

182/Del/79 Gould Components Limited AC control apparatus (March 22, 1978)

183/Del/79 Societe Nationale Industrielle Aerospatiale Multi-directional suspension means for rotor aircraft

184/Del/79 Stamicarbon B V Device for rinsing fine solid particles

185/Del/79 Aluminium Pechiney A device for reducing magnetic disturbances in series of very high intensity electrolysis cells

186/Del/79 L Paszner Mineral-clad lignous bodies and method of adhering a mineral deposit in wood fragment surfaces (March 20, 1978).

21st March, 1979

187/Del/79 Bayer Aktiengesellschaft Reactive dyes/ultra

188/Del/79 Pfizer Inc Improved delivery system

22nd March, 1979

189/Del/79 Uniroyal Limited Apparatus for irradiating a surface (April 11, 1978)

23rd March 1979

190/Del/79 Council of Scientific and Industrial Research A process for the recovery of Selenium from its coatings on Aluminium

191/Del/79 Council of Scientific and Industrial Research A new process for the purification of a sulfuric acid binding lectin from Indian horseshoe crab (carcinoscorpius rotundus cauda)

192/Del/79 Mr S K Jain An animal drawn vehicle

193/Del/79 Bharat Heavy Electrical Limited A solar electrical power generation system

194/Del/79 V Singh A puppet

24th March, 1979

195/Del/79 Bharat Heavy Electricals Ltd A device for cleaning or polishing metallic surfaces

26th March, 1979

196/Del/79 Bharat Heavy Electricals Limited Improvements in or relating to a device for lapping and/or polishing metal surfaces, a method of making such a device and a method of lapping and/or polishing metal surfaces using such a device

197/Del/79 Dilp Ing H Koster A flat bed collector

198/Del/79 Instituto DF Angel S p A Novel process for production of 4-substituted 1, 2-diphenyl-3, 5-dioxopyrazolidines

199/Del/79 Sistemeo N V A fire resistant cabinet

200/Del/79 Federal Mogul Corporation Self aligning clutch release bearing

201/Del/79 Sistemeo N V Fire protection cabinet

27th March, 1979

202/Del/79 R J Aresty Improved solar energy collectors

203/Del/79 Toyo Engineering Corporation A process for manufacture of methanol

204/Del/79 S G Peschel Variable transformer method and apparatus

28th March, 1979

205/Del/79 Uniroyal Limited Apparatus and method for brushing out the unexposed portions of a photo polymer printing cylinder (April 11, 1978).

29th March, 1979

206/Del/79 Vishvkarma Foundry and Naranjan Dass Dhiman & Bros Improvements in or relating to a paddy thresher

207/Del/79 Messerschmitt Bolkow-Blohm Gesellschaft Mit Beschränkter Haftung Apparatus for separation of mixtures of gases

208/Del/79 Schering Aktiengesellschaft, Herbulidally active N ethylcarbanilic acid (3-methoxycarbonyl-amino) phenyl ester and its manufacture and use

APPLICATION FOR PATENTS FILED AT THE
(MADRAS BRANCH)

26th March, 1979

53/Mar/79 Rao & Associates Improvements in or relating to reinforced plastic suction hose

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months give notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs 2/- (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 114C

146332

Int Cl -D06n 3/00

PROCESS FOR MANUFACTURING PROTEIN-CONTAINING ARTIFICIAL LEATHER

Applicant FTABLISEMENT CHEMIARO, OF MAUREREN, LIECHTENSTEIN

Inventor DR MARGHERITA CAVALLO

Application No 243/Cal/77 filed February 18, 1977

Convention date February 16, 1977/(06423/77) UK

Appropriate office for opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office, Calcutta

15 Claims

A process for manufacturing artificial leather from animal waste, comprising the following stages

preparing a colloidal solution of a protein substance of collagenic origin by dissolving untanned tannery flesh and/or slaughterhouse waste in hot water,

deeply soaking a synthetic support of good porosity, and of known type, with said solution of collagenic substance, and condensing and cross linking said collagenic substance on the synthetic support fibres by the simple action of cross-linking agents,

tanning the support thus soaked by using the known tanning processes of natural hide tanning technology

CLASS 42A, 146333

Int Cl -A24b 11/00

A TIERED CONTAINER FOR USE IN A BATCH-TYPE PROCESS FOR TREATING TOBACCO

Applicant R J REYNOLDS TOBACCO COMPANY, OF 4TH AND MAIN STREETS WINSTON-SALEM, NORTH CAROLINA 27102, UNITED STATES OF AMERICA

Inventor ROBERT CALVIN JOHNSON

Application No 327/Cal/77 filed March 4, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

11 Claims

A tiered container for use in the autoclave of an apparatus used in a process for increasing the filling capacity of tobacco, said process utilizing a volatile organic compound such as hereinbefore described to impregnate the tobacco carried in beds in the tiered container and a hot gas such as hereinbefore described to vaporize the compound in the tobacco, said tiered container comprising at least two baskets, each of said baskets including

(a) a bottom with an aperture therein;

(b) a side wall secured to and circumsting said bottom,

(c) a perforated member positioned above said bottom and within said side wall providing a flow passage between said perforated member and said bottom, said perforated member receiving a portion of the total quantity of tobacco to be processed, and

(d) a conduit communicating with the flow passage and said aperture within its basket and the aperture and flow passage of an adjacent basket, whereby a fluid can pass upwardly through said apertures into said flow passages and through the perforated members into the tobacco beds and downwardly through said beds into said flow passages and into said conduits adjacent said basket

CLASS 201B, 146334.

Int Cl C02c 5/00

METHOD FOR HIGH VOLUME DISTILLATION OF LIQUIDS AND A DEVICE THEREFOR

Applicant & Inventor JEROME KATZ, OF 280 RHINECLIFF DR, ROCHESTER NY 14603, UNITED STATES OF AMERICA AND SIDNEY J FOGEL, OF P O BOX, 1856 ROCHESTER, NY 14603, UNITED STATES OF AMERICA

Application No 646/Cal/77 filed April 29, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

171 Claims

A method for high volume distillation of impure liquids such as hereinbefore defined to purify and recover said liquids comprising the steps of (a) evaporating said impure liquid in an evaporator to form a vapor at a temperature above the freezing point and below the critical point of said

liquid at ambient pressure and at a pressure not exceeding a pressure corresponding to said evaporation temperature under saturated conditions (b) compressing said vapor in compression means, (c) adding in a manner such as hereinbefore described sufficient energy to operate said compression means, (d) cooling said vapor in heat transfer relation with said impure liquid whereby said vapor at least partially condenses, transferring sufficient heat to said impure liquid for evaporating at least a part of said liquid and to form a vapor therefrom having said temperature and pressure characteristics set forth in sub-paragraph (a) hereof, and

(e) collecting in a conventional manner said condensed vapor

CLASS 32A, & 62C

146335

Int Cl -C09b 33/18

PROCESS FOR MANUFACTURING SOLUBLE TRISAZO DYESTUFFS

Applicant CASSELLA FARBWERKE MAINKUR AKTIENGESELLSCHAFT, OF 6 FRANKFURT (MAIN) FUCHENHEIM, HANAUER LANDSTRASSE, 526, WEST GERMANY

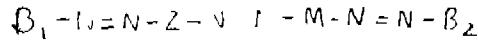
Inventors WOLFGANG BAUER AND JOACHIM RIBKA

Application No 729/Cal/77 filed May 16, 1977

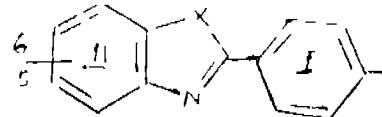
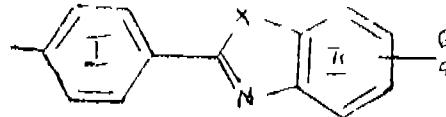
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

11 Claims

A process for the manufacture of a water-soluble trisazo dyestuff of the formula shown in Fig 1



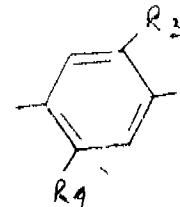
wherein Z denotes a radical of the formula as shown in Fig 2 or Fig. 3.



wherein X is

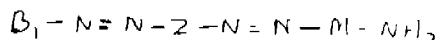
R₁

-N-, -O- or -S-, R₁ is H, alkyl having from 1 to 4C atoms, phenyl or benzyl, M denotes a divalent radical of the formula shown in Fig 4



wherein R₃ is H, chlorine, alkyl having from 1 to 4C atoms or alkoxy having from 1 to 4C atoms, R₄ is H, chlorine, alkyl having from 1 to 4C atoms, hydroxyl, alkoxy having from 1 to 4C atoms, acylamino having from 1 to 4C atoms in the acyl moiety, aroylamino, oxylamino or carboxyalkyl amino, sulpholylamino or oxyalkylamino having in each case from 1 to 4C atoms in the alkyl moiety and B₁ and B₂ denote the

radicals of coupling components of the benzene, naphthalene, pyrazolone, 6-hydroxy-2-pyridone, 2, 6-diaminopyridine or acetoacetic acid arylamide or dihydroxyquinoline series as defined hereinafter and are the same or different and the aromatic carboxylic nuclei, I and/or II, of the radical Z being optionally further substituted by one or two identical or different substituents, selected from alkyl and alkoxy having 1 or 2C atoms, and halogen and at least one sulpho group or carboxyl group being present in the dyestuff of formula I, said at least one carboxyl or sulpho group optionally being present in the form of an alkali metal, alkaline earth metal or ammonium salt thereof, comprising diazotisation in a known manner of a diazotisable disazo dyestuff of the formula shown in Fig. 10.



wherein B_1 , Z and M have the same meaning as defined above in formula shown in Fig. 1 and coupling of the product at temperatures of -10 to +30°C within a pH range of 4 to 12 with a coupling component of the formula shown in Fig. 11.



wherein B_2 has the same meaning as defined above in formula I.

CLASS 32A.₁ 146336.

Int. Cl.-C09b 35/36.

PROCESS FOR THE MANUFACTURE OF SOLUBLE TRISAZO DYESTUFFS.

Applicant: CASSELLA FARBWERKE MAINKUR AKTIENGESELLSCHAFT, OF 6000 FRANKFURT (MAIN)-FECHENHEIM, WEST GERMANY, 526, HANAUER LANDSTRASSE.

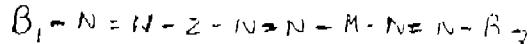
Inventors: WOLFGANG BAUER AND JOACHIM RIBKA.

Application No. 730/Cal/77 filed May 16, 1977.

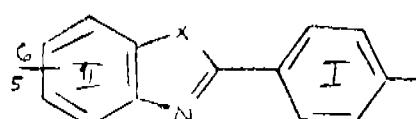
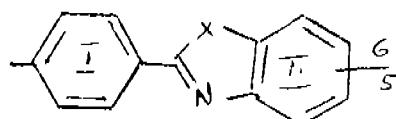
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A process for the manufacture of a water-soluble trisazo dyestuff of the formula I as shown in Fig. 1.



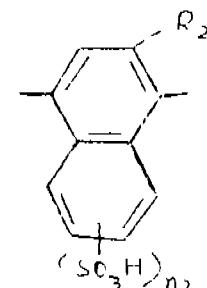
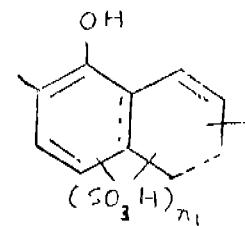
wherein Z denotes a radical of the formula as shown in Fig. 2 or Fig. 3.



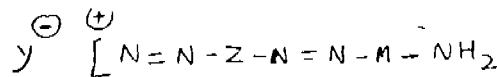
R_1

wherein X denotes -N-, -O- or -S-, R_1 denote H, alkyl with 1 to 4C atoms, phenyl or benzyl, M denotes a divalent radical

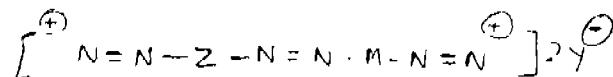
of the formula II or III as shown in Fig. 4 or Fig. 5.



wherein R_2 denotes H or a non-ionic substituent, B_1 and B_2 are the same or different and each is the radical of a diazotisable coupling component, n_1 denotes the number 1 or 2 and n_2 denotes the number 0 or 1, and the aromatic carbocyclic nuclei, I and/or II, of the heterocyclic radical Z are optionally further substituted, at least one sulpho group being present in the dyestuff of formula I, and any carboxyl or sulpho group optionally being present in the form of a salt thereof, comprising further diazotisation of a diazotised monoazo dyestuff of the formula XIV as shown in Fig. 9.



wherein y- is the anion of a mineral acid, and Z and M have the same meaning as defined above in formula I so as to produce a tetraazotised monoazo dyestuff of the formula XV as shown in Fig. 10.



and coupling thereof with one mol of each of the diazotisable coupling components B_1 -H (XII) or B_2 -H(X), wherein B_1 and B_2 are the same or different and have the meanings given before.

CLASS 32E.₁

146337.

Int. Cl.-C07c 103/52.

A NOVEL PROCESS FOR THE SYNTHESIS OF PEPTIDES.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors: BALEKUDRU DEVADAS AND KRISHNA BEHARI MATHUR.

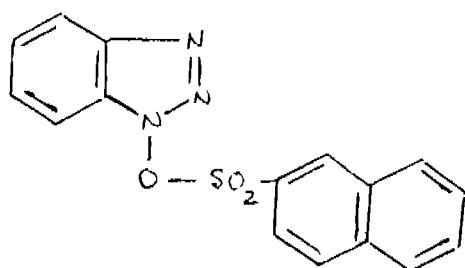
Application No. 154/Del/77 filed July 8, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

1 Claim

A process for the synthesis of peptides comprising the reaction of a suitably protected amino acid or peptide derivative having a free carboxyl group with another amino acid or peptide derivative having a free amino function in presence of

equimolar quantities of 1- β -naphthale-nesulphonyloxy benzotriazole of the formula I.



and tertiary amine such as triethylamine or N-methyl-morpholine in an organic solvent such as N, N-dimethyl-formamide, tetrahydrofuran or ethyl acetate to give the required peptide derivative in high yields without recemicization.

CLASS 14B.

146338.

Int. Cl.-H01m 11/00, B01k 3/12.

SEPARATOR ELECTROLYTE PASTE AND ZINC MANGANESE DIOXIDE DRY CELL OF IMPROVED LEAK PROOFNESS CONTAINING SAMF.

Applicant : UNION CARBIDE INDIA LIMITED, OF 1 MIDDLETON STREET, CALCUTTA-700 016, WEST BENGAL, INDIA.

Inventors : ULAGANATHAN NALLAPERUMAL, KRISHNASWAMY SWAMINATHAN AND RAJAGOPALAN PARTHASARATHY.

Application No. 501/Cal/77 filed April 4, 1977.

Complete Specification left July 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Separator electrolyte paste of the kind described for dry cells characterised in that to it is added water soluble divalent lead salt or salts.

CLASS 32Fa & 40F.

146339.

Int. Cl.-C07b 13/02, 13/06.

SULFONATION OF ORGANIC REACTANTS AND APPARATUS THEREFOR.

Applicant : THE CHEMITHON CORPORATION, OF 5430 WEST MARGINAL WAY, S.W. SEATTLE WASHINGTON 98106, UNITED STATES OF AMERICA.

Inventors : BURTON BROOKS AND RICHARD JAMES BROOKS.

Application No. 697/Cal/77 filed May 10, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

34 Claims

A continuous process for reacting a gaseous sulfonating agent comprising sulfur trioxide with a sulfonatable liquid organic reactant to produce a reaction product, which process comprises forming a mixture comprising said sulfur trioxide and particles of said organic reactant and reacting said organic reactant with said sulfur trioxide in said mixture, characterized by the steps of : flowing in known manner a pair of closely spaced films of cooling liquid, comprising cooled, recycled reaction product, downstream of the location where said mixture was formed; flowing in known manner said mixture concurrently with, and between, said closely spaced films of cooling liquid; agglomerating in known manner said particles of said mixture into said films during said concurrent flow; and reacting said organic reactant with said sulfur trioxide in said mixture, during said concurrent flow, to form said reaction product.

CLASS 32F, & F.b.

146340.

Int. Cl.-C07d 49/20.

PROCESS FOR PREPARING 1-PHENYL-3-AMINO-PYRAZOLES.

Applicant : MONTEDISON S.P.A., OF 31, FORO BUONAPARTE, MILAN, ITALY.

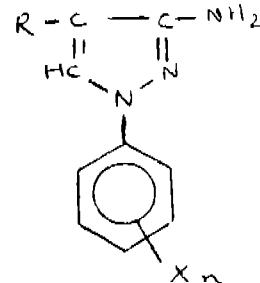
Inventors : RUGGERO BATTISTI, LUIGI CASSAR AND NICOLA MAZZAFERRO.

Application No. 938/Cal/77 filed June 23, 1977.

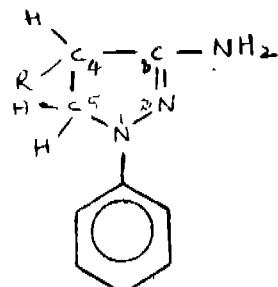
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Process for preparing 1-phenyl-3-amino-pyrazoles having the general formula (I).



wherein R=H, CH₃; X=H, Br, Cl, alkyl, alkoxy and carboxy alkyl groups with upto 4 carbon atoms, CF₃; and n=1, 2 by oxidation of 1-phenyl-3-amino-2-pyrazolines having the general formula (II).



in which R, X and n have the same meaning as indicated hereinabove characterized in that oxidation is conducted in an oxygen and/or air atmosphere in the presence of at least a copper salt in an inert reaction medium at a temperature ranging from about 20° to 40°C.

CLASS 154G.

146341.

Int. Cl.-B41b 1/12.

STENCIL DUPLICATOR.

Applicant : GESTETNER LIMITED, OF 41, FAWLEY ROAD, TOTTENHAM, LONDON N17 9LT, ENGLAND.

Inventors : ALBERT GEORGE RONALD GATES AND MICHAEL MAYNARD.

Application No. 1952/Cal/76 filed October 27, 1976.

Convention date October 27, 1975/(44139/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A stencil duplicator having : at least one cylinder with a stencil-supporting screen mounted on the cylinder for circulating the stencil about the axis of rotation of the cylinder while ink is applied to one side of the stencil, in use of the dupli-

cator, means for mounting a core alongside the cylinder or one of the cylinders, drive transmission means between the drive to the stencil circulating cylinder and the core supporting means for driving the core at a peripheral speed higher than the peripheral speed of the cylinder adjacent which the core is mounted, said drive transmission means incorporating a one way clutch to ensure that drive to the core can only occur during rotation of the duplicator cylinder or cylinders in a sense of rotation opposite to the normal sense of rotation applicable during printing, and torque-limiting means for allowing slipping drive between the duplicator drive and the core.

CLASS 195B.

146342.

Int Cl -F16k 15/00.

A NON-RETURN VALVE.

Applicant & Inventor SUBRAT CHATTERJEE OF RIN GSTRASSE 62 2863 RITTERHUIDE, WEST GERMANY

Application No 785/Cal/77 filed May 25, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

11 Claims

A non-return valve for fitting between end flanges of pipelines, having a valve plate loaded by a thrust spring in a valve body having an inlet and an outlet, and axially directed retaining means for centering the valve plate, characterized in that the valve plate (18) is centered by retaining studs (23, 24 and 25), the free length of which corresponds approximately to the axial depth of the interior chamber (22) of the valve body so that the retaining studs (23, 24 and 25) are secured against axial displacement in the chamber (22) by the end of the pipeline (12) which bears against the outlet side of the valve body (15).

CLASS 32F, & F^a

146343

Int Cl. C07d 15/04

PROCESS FOR PREPARING A HERBICIDAL 1, 3 DIOXANE

Applicant FMC CORPORATION, OF 2000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA

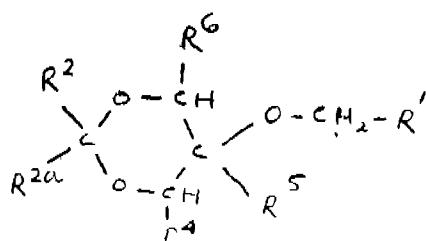
Inventor MARVIN JOSEPH KONZ

Application No 1052/Cal/77 filed July 11, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

17 Claims

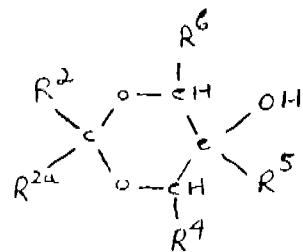
A process for preparing a compound of the formula II



in which R² is hydrogen, alkyl, haloalkyl, alkoxyalkyl, cyanoalkyl, or phenyl,

R^{2a} is hydrogen, and R^{2a} and R² taken together may represent a divalent polymethylene radical of 2 to 6 carbon atoms, and so form a spiro structure, R⁴ is alkyl, haloalkyl, or cyanoalkyl, R⁵ is hydrogen or alkyl; R⁶ is hydrogen, alkyl, haloalkyl, or cyanoalkyl, R¹ is phenyl, furyl, pyridyl, thiophenyl, or phenyl with one or two non-hydrogen substituents selected from the group consisting of chloro, fluoro, and methyl, and -OCH₂-R¹ bears a *cis*-relationship to R⁶ other than hydrogen,

characterized preferably in that a substituted 5 hydroxy-1, 3 dioxane of the formula III



in which the hydroxy radical bears a *cis*-relationship to R⁶ other than hydrogen, is treated in a solvent with alkali metal base such as herein described to form the corresponding alkali metal alcoholate, which is then reacted with arylmethyl or heteroaryl methyl chloride or bromide, R¹CH₂Cl or R¹CH₂Br, and the product is separated from the reaction mixture by known methods

CLASS 187C.

146344.

Int Cl -H04m 3/00

A FAST OPERATING PULSING RELAY FOR USE IN A CROSS-BAR TELEPHONE EXCHANGE

Applicant PLA COMPONENTS OF THAKOR ESTATE, KURLA KIROL ROAD, VIDYA-VIHAR (WEST), BOMBAY-400 086, MAHARASHTRA, INDIA

Inventors NARENDRA RAVILAL SHAH AND SUMATICHANDRA LAKHAMSHTI MUNAVAR

Application No 175/Bom/77 filed May 26, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch

5 Claims

A fast operating pulsing relay for use in a cross-bar telephone exchange comprising a tone transformer having a primary coil connectable across a first pair of terminal pins leading to the tone generating section of the telephone exchange for receiving tone signals, a first secondary coil connectable between a second terminal pin and a third terminal pin leading to a and b telephone line and a second secondary coil connectable between a fourth terminal pin and a fifth terminal pin leading to b or a telephone line, said first secondary coil and said second secondary coil having equal ohmic impedance, a reed relay having a relay contact connectable to a pair of sixth terminal pins leading to the telephone exchange, a pair of relay coils one of which is connected in series with said first secondary coil to form a first series circuit while the other is connected in series with said second secondary coil to form a second series circuit of an ohmic impedance equal to that of the first series circuit, and a capacitor provided across said third terminal pin and fifth terminal pin

CLASS 6A, & 172D

146345.

Int Cl -A471 5/14

IMPROVEMENTS IN OR RELATING TO TRAVELLING SUCTION AND BLOWING CLEANERS FOR USE IN INDUSTRIAL UNITS SUCH AS TEXTILE UNITS.

Applicant & Inventor AVARAMPALAYAM GOPALASWAMI NAIDU GOVINDARAJULU, ALIIED ENGINEERING INDUSTRIES, POST BOX NO 2727, 27-A, BHARATHI PARK ROAD SAIBABA MISSION P.O. COIMBATORE-641011, TAMILNADU, INDIA

Application No 136/Mas/76 filed July 28, 1976

Complete specification left April 11, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch

CLASS 128F & K.

146349.

Int. Cl.-A61m 5/00.

FLUID DISPENSING DEVICE AND A DISPENSER COMPRISING SAID DEVICE.

Applicant : IMS LIMITED, OF 1886 SANTA ANITA AVENUE, SOUTH FL. MONTE, CALIFORNIA 91733, UNITED STATES OF AMERICA.*Inventor* : ROBERT WALTER OGLE.

Application No. 1639/Cal/77 filed November 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A pouring device for the aseptic transfer of sterile solutions from a container to the sterile operating field or other similar area, said device having a fluid passage, a flange disposed about the exterior of the fluid passage, one end of said fluid passage has a sharpened scarf or cutting edge for penetration of the stopper or closure on a container of sterile solution, the portion of the fluid passage on the opposite side of said flange being elongated and is bent or curved so that when the device is held near the flange with a container of sterile solution in place, the end of the fluid passage opposite the cutting end acts as a dispensing spout for the sterile solution while the sterile solution container remains physically displaced from the pouring end of the fluid passage, said device also having an airway which extends generally parallel to the fluid passage from the cutting end through said flange and terminates in an exterior opening, and a resilient, seal-forming surface on that side of the flange facing said cutting edge whereby the flange is adapted to prevent fluid leaks when the device is being used to dispense from a container of sterile solution.

CLASS 6B. & 50A.

146350.

Int. Cl.-F16m 59/06, F17c 1/12.

HEAT-INSULATING COMPOSITE MATERIAL, AND A GAS RESERVOIR PRODUCED THEREFROM.

Applicant & Inventor : ALAIN BALLEYGUIER, OF 17, RUE DES PETITS BOIS, 92370 CHAVILLE, FRANCE.

Application No. 39/Del/78 filed January 16, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

11 Claims

Heat-insulating composite material of the type comprising at least two leakproof walls between which a certain vacuum is set up, and which are kept apart by spacers, characterised in that the said walls are produced from a relatively flexible material such as herein described, means being provided for ensuring that the said walls are tensioned, substantially in the plane of their surfaces.

CLASS 9F.

146351.

Int. Cl.-C22c 15/00.

A METHOD OF MANUFACTURING AN ALLOY OF TITANIUM.

Applicant : IMPERIAL METAL INDUSTRIES (KYN) LIMITED, OF KYNOCH WORKS, WITTON, BIRMINGHAM B6 7BA, ENGLAND.*Inventors* : DONALD FRANCIS NHAL, AND ADDYMAN BLENKINSOP.

Application No. 810/Cal/76 filed May 7, 1976

Convention date May 7, 1975/(19130/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2-47GI/79

9 Claims

A method of manufacturing an alloy of titanium which includes the steps of mixing together the metals titanium, aluminium, tin, zirconium, niobium, molybdenum and silicon, melting the mixture to form a homogeneous alloy and cooling the alloy, in which the aluminium is present in an amount in the range 5-6wt%, tin is present in an amount in the range 2.5-4wt%, zirconium is present in an amount in the range 2-4wt%, niobium is present in an amount in the range 0.75-1.25wt%, molybdenum is present in an amount in the range 0.1-0.6wt%, silicon is present in an amount in the range 0.2-0.4wt%, balance titanium apart from incidental impurities.

CLASS 131B.

146352.

Int. Cl.-F21b 43/01.

IMPROVEMENTS IN OR RELATING TO SUPPORTS FOR MARITIME STRUCTURES.

Applicant : REDPATH DORMAN LONG (NORTH SEA) LIMITED, OF R. D. L. HOUSE, 53 GOLDFINGTON ROAD, BEDFORD, BEDFORDSHIRE, ENGLAND.*Inventors* : VLADIMIR NASTASIC AND DONALD MILES WATSON.

Application No. 967/Cal/76 filed June 4, 1976.

Convention date June 4, 1975/(24139/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A unit attached to or for attachment to the base of a foundation raft, and comprising a fluid tight chamber of variable volume, which is open to pressure transmitted from the seabed to the base, and means to control the escape of fluid from that chamber, whereby the foundation raft may be lowered towards the seabed.

CLASS 62A.

146353.

Int. Cl.-D06f 39/00

WET TREATMENT APPARATUS FOR TEXTILE MATERIALS.

Applicant : OBERMAIER DO BRASIL S/A EQUIPAMENTOS INDUSTRIAL, AT RUA BRIGADEIRO TOBIAS N° 356—7TH FLOOR CONJ. B SAO PAULO—SP, BRAZIL.*Inventors* : MAX BRUNO RICHARD WOLFF AND HERBERT LUDWING SCHMIDT.

Application No. 1291/Cal/76 filed July 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A wet treatment apparatus for textile materials comprising a container for receiving the textile material and the liquid for the treatment of the said material and an axial reversible pump provided within the said container, rotor of the pump being provided with a number of blades which are movable from one extreme position to another extreme position or to any position by means of pins secured to the said blades and wherein the said pins are actuated by lever from outside the apparatus.

CLASS 62F.

146354.

Int. Cl.-D06f 63/00.

APPARATUS FOR FOLDING AND PRESSING, IN PARTICULAR FOR SHIRTS.

Applicant : AB CALATOR, OF BOX 137, ULTRICFHAMNSVAGEN 36, BORAS, SWEDEN.*Inventor* : OSMO VILJAM HARJAPAA.

Application No. 1606/Cal/76 filed September 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Apparatus for folding and pressing, in particular for shirts, comprising a frame work with a plurality of plates being movable in relation to each other and in particular in relation to a preferably stationary base plate, which plates are intended to fold and press parts of a garment, characterized in, that associated to the outer end of said base plate is arranged one first-movable plate for holding said garment on said base plate, another-second-movable plate for superposing the latter being annexed to the interior end of said base plate, to each long side of said base plate and said second movable plate are annexed superposable and preferably arranged at different levels, a plurality of movable side plates; at least part of said movable plates being swingable in relation to horizontal axes; and to said second movable plate being connected at least one holding element cooperating with it.

CLASS 63-I & J. 146355.

Int. Cl.-H 2k 41/00.

LINEAR ACTUATOR SYSTEM.

Applicant : K. K. DANI CONSULTANTS & ENGINEERS PRIVATE LTD., AT 767/9, SHIVAJI NAGAR, POONA-411004, MAHARASHTRA, INDIA.

Inventors : VINAYAK KHANDERAO DANI AND MORESHWAR KHANDERAO DANI.

Application No. 46/Bom/76 filed February 9, 1976.

Complete specification left May 6, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims

A Linear Actuator system operated by A.C. electric supply comprising a combination of : (i) Primary member or members; and (ii) Secondary member or members, wherein said primary member or members and said secondary member or members are held away from each other by means of suitable mountings or fixtures at definite distance from each other and one another so as to form an air gap between the two and wherein said primary member or members carry suitable designed interconnected electrical windings and said secondary member or members is/are a flat strip/s or strap/s or bar/s made up from a combination of magnetic or non-magnetic materials such as iron, copper, aluminium or any combinations thereof and where in either said primary member/members are fixed and said secondary member/members are movable or said secondary member/members is/are fixed and said primary member/members are movable, the arrangement being such that on feeding electrical energy to said primary member/members a linearly travelling electro-magnetic field is generated in the air gap between said primary and said secondary member/members and said secondary member or said primary member travels linearly depending on which of the two is movable thereby providing a contactless linear drive to any load connected to said movable member/members without any mechanical linkages.

CLASS 68E & 148H 146356.

Int. Cl.-G03b 315/05 H05b 41/30.

ELECTRONIC FLASH GUN.

Applicant : KIRI OSKAR CONSULTANTS LIMITED, AT 917/19A, SHIVAJI NAGAR, FERGUSSON COLLEGE ROAD, POONA-411004, MAHARASHTRA, INDIA.

Inventor : KURUPPATH RAVINDRAN.

Application No. 189/Bom/76 filed June 18, 1976.

Complete specification left July 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

13 Claims

An electronic flash gun for operation on AC mains or on battery comprising a combination of (i) semi-conductor switching devices; (ii) ferrite core inverter transformer; (iii)

ferrite core pulse transformer for high voltage triggering flash tube; (iv) a 6-volt battery and associated circuitry for automatically controlling and sensing the charging voltage on the flash capacitor, cut-off and cut-in central circuitry with energy level upto 120 joules, and connected as shown in the circuit diagram of Fig. 2. of the accompanying drawing.

CLASS 189. 146357

Int. Cl.-A61k 7/00.

AN ANTIPERSPIRANT COSMETIC COMPOSITION FOR APPLYING TO THE HUMAN BODY FROM A PUMP-SPRAY OR ROLL-ON APPLICATOR.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, BOMBAY, MAHARASHTRA, INDIA.

Inventors : UNILEVER LIMITED, JOHN JOSEPH MILES, WILLIAM NEZBAUNDT AND MORTON PADFRE.

Application No. 346/Bom/76 filed October 7, 1976.

Convention date October 7, 1975/(41036/75) (41037/75) (41038/75) U.K.

Appropriate office for opposition Proceedings Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

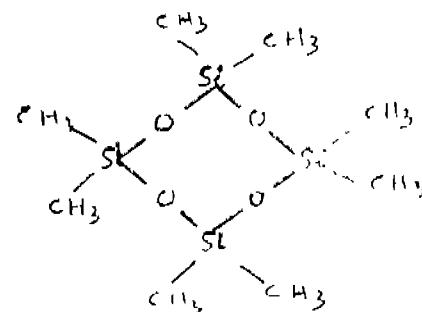
13 Claims

An antiperspirant cosmetic composition suitable for applying to the human body from a pump spray applicator or a roll-on applicator consisting of a liquid medium comprising :

A. 40 to 85% by weight of the composition of a cosmetically acceptable alcohol as herein described;

B. 5 to 25% by weight of the composition of an aluminium chlohydroxide complex as herein described which is soluble in said alcohol; and

C. to render the composition relatively non-tacky during drying a siloxane dissolved in the composition comprising a volatile cyclic polydimethylsiloxane of the structural formula I.



in an amount of 5 to 40% by weight of the composition or a non-volatile polyphenylmethyl-siloxane or poly higher alkyl siloxane wherein each alkyl group contains at least three carbon atoms, in an amount of 1 to 10% by weight of the composition.

CLASS 40 I & 89 146358

Int. Cl.-G01b 19/00.

A NEW DILATOMETER.

Applicant & Inventor : DR. HARSHA VARDHAN TIWARY, RAVISHANKAR UNIVERSITY, RAIPUR, 492002, MADHYA PRADESH, INDIA.

Application No. 439/Bom/76 filed December 17, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

1 Claim

A new dilatometer, measuring any dimensional change and thus thermal expansion of needle shaped material kept in a miniature furnace, in terms of a change in the rotational angle of a reflecting surface with the help of a spectrometric vernier scale, comprises of a reflecting optical thin glass plate mounted on a spring loaded miniature flywheel with its vertical axis coinciding that of the dilatometer table and pushed by an insulated quartz carrier needle in straight line with the specimen needle and at right angles to reflecting surface at a distance of two millimeter from the axis of rotation.

CLASS 32F:a.

146359

Int. Cl.-C07c 101/48.

IMPROVEMENTS IN OR RELATING TO THE PROCESS FOR PRODUCTION OF ALKYL ANTHRANILATE FROM ISATOIC ANHYDRIDE

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI, MARG, NEW DELHI-1, INDIA.

Inventors: YERRAMALI RAMACHANDRA RAO AND SHIBA NARAYANA MAHAPATRA.

Application No. 171/Del/77 filed July 26, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims. No drawings.

In a process for the preparation of alkyl anthranilates like methyl and ethyl anthranilates comprising reacting isatoic anhydride with an alcohol in the presence of a base, the improvement consists in that the reaction mixture is treated for recovery of excess alcohol by distillation, the alkyl anthranilate formed is extracted with a hydrocarbon solvent as an organic phase and recovering of the solvent.

PATENTS SEALED

143567 143636 143642 143698 143699 143709 143737 143772
143810 143868 143912 143919 143931 143970 144050 144457

AMENDMENT PENDING UNDER SECTION 57

Notice is hereby given that Toyama Chemical Co. Ltd., a corporation organized under the laws of Japan, of 1-18, Kayabacho, Nihonbashi, Chuo-ku, Tokyo, Japan, have made an application under section 57 of the Patents Act, 1970 for amendment of the complete specification for their application for patent No 141981 for "Process for producing novel penicillins and cephalosporins". The amendments are by way of correction so as to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing the said notice.

MISC. LIST NO. II

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of General and Mechanical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of Calendar year 1977 generally on account of want of request for licences to work the patented inventions. Persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of the Patent	Brief title of the invention.
1.	127366	4-7-69	Metallurgical Development Co., Trust Bldg, Frederick St. Nassau Bahamas & Austral House, Basinghall Avenue E.C.Z., London, England.	Condensation of metal vapour.
2.	130033	22-1-71	G. D. Societa Per Azioni, Via Pomponiolo, Bologna, Italy.	Automatically varying the operating speed in packing up machines for packet cigarettes.
3.	130102	29-1-71	U.S.S. Engineers & Consultants, Inc., Pittsburgh, Pennsylvania, U.S.A.	Automatically supplying oil to a hot strip rolling mill.
4.	130191	5-2-71	G.D. Societa Per Azioni, Italy.	Conveyor device for assembling overlapping layend sets of cigarettes & packing them as packets in cigarette packing machine.
5.	130234	11-2-71	Dunlop Holdings Ltd., Dunlop House, Ryder Street, St. James, London S.W. 1, England.	Pneumatic tyres.
6.	130247	12-2-71	The Goodyear Tire & Rubber Co., 1144 East Market Street, Akron, Ohio, U.S.A.	Inflatable shelter & method of erecting.
7.	130297	17-2-71	F.M.C. Corp., 1105 Coleman Avenue, Box 760 San Jose, California, U.S.A.	A retainer assembly for the roller of a cylindrical roller bearing cage.
8.	130311	17-2-71	Bunker Ramo Corp., 900 Commerce Drive, Oak Brook, Illinois, U.S.A.	Pin & socket removal tool.
9.	130372	25-2-71	Dr. O. A. Becker, S9, Robert Koch Stasse, F.R.G.	Resistance welding of metal sheets.
10.	130556	16-3-71	Fison Ltd., Hawest House, Helix stowe, Suffolk, England.	Dispensing a medicament in a finely divided powder form.

1.	2.	3.	4.	5.
11.	130592	16-3-71	Knorr Bremse G.M.B.H. 8 Munchen 13, Moosacher Strasse 8, F.R.G.	A compressed air braking equipment for rail vehicles.
12.	130790	30-3-71	Werkzeugmaschinen fabrik Orlikon Buhrlie A.G., CH-8050, Zurich, Switzerland.	Automatic load dependant compressed air break system.
13.	130977	14-4-71	Sulzer Brothers Ltd., Winterthur, Switzerland.	A storage device of filamentary material.
14.	131002	16-4-71	Dr. C. Otto & Comp G.M.B.H. Postfach 1849/1850, 463 Bochum, W. Germany.	By product coke oven.
15.	131036	19-4-71	Redpath Dorman Long (Contracting) Ltd., Elliot House, Hillside, Crescent, Scotland.	Manufacture of parallel wire strand.
16.	131058	21-4-71	U.S.S. Engineers & Consultants Inc, U.S.A.	Slidable gate construction for use as a closure on a bottom pour vessel.
17.	131081	22-4-71	Ruti Machinery Works Ltd., CH-8630 Ruti, Zurich, Switzerland.	Arrangement for holding weft threads.
18.	131103	24-4-71	Imasco Ltd., 4 Westmount Square, Montreal 216, Quebec, Canada.	Pneumatic separator with re-circulation of air.
19.	131222	4-5-71	William Prym Werke A. Q. 519 Stolberg/Rhede Zweifaller, R.R.G.	Manufacturing slide fastener by wearing.
20.	131242	5-5-71	Aktieselskabet Niro Atomizer, 305 Gladaxevej, 2860 Soborg, Denmark.	Liquid distributor for feeding liquid to rotating atomizer wheel.
21.	131246	5-5-71	Luclid Inc, 2221, St-Clair Avenue, Cleveland, Ohio 44117, U.S.A.	Exhaust diverting valve for dumpade vehicles having heated dump bodies.
22.	131353	13-5-71	Shiro Ichinose, 11-8, 4-Chome, Shinahara Kitamachi, Nada-KV, Kobe-Shi, Hyogo-ken, Japan.	A screen printing machine.
23.	131357	13-5-71	V.D.O. Tachometer Werke Etc., 6 Frankfurt am Main 90, Postfach 901020, F.R.U.G.	Tachometer with a distance counting device.
24.	131374	14-2-72	Flender Macneil Gears Lts., 4290, Bocholt, F.R.G.	Flexible couplings.
25.	131491	25-5-71	Inoplast Handelsgesellschaft, 6 Frankjurtam Main, Eschershilmir, F.R.Q.	A sports striking instrument e.g. a hockey stick or Golf club.
26.	131503	26-5-71	Siemens, Berlin & Munich, W. Germany.	A die suitable for use in the application of covering layer to a wire.
27.	131512	20-4-72	Hindustan Lever Ltd., 165-166, Backbay Reclamation, Bombay-20.	Making an improved pig feed.
28.	131530	30-6-71	Eisenwerk-Gesellschaft Maximilianshutte, M.B.H., Sulzbach-Rosenberg Hütte, W. Germany.	Making steel.
29.	131532	29-5-71	Dunlop Holdings Ltd., England.	Pneumatic tyres.
30.	131546	31-5-71	Do.	Tyre mould.
31.	131563	2-6-71	Glaverbel Mecaniver, 166 Chausse De La Hulpe, Watermaelbaits fort, Belgium.	Bending sheet blanks.
32.	131564	2-6-71	U.S.S. Engineers & Consultants Inc, U.S.A.	Making rim-stabilized Steel ingots.
33.	132158	19-7-71	Joseph Lucas (Industries) Pvt., Great Kings street, Birmingham, England.	Contact breaker assemblies for ignition distributors.
34.	132172	20-7-71	Do.	Ignition distributors.
35.	132173	20-7-71	Do.	Contact breaker assemblies for use in ignition distributors.
36.	132518	16-8-71	Dresser Investments N. V., Willemstad, Curacao, Netherlands, Antilles.	Mixing & modulating fuel & intake air from an I-C Engine.
37.	133168	7-10-71	Dr. C. Otto & Comp G.M.B.H., West Germany.	Control means for the introduction of gaseous combustion agent in relation to regeneratively heated coke oven batteries.
38.	134259	12-1-72	Texaco Development Corp., 135 East 42nd Street, N. Y. 10017, U.S.A.	Separating oily refinery shides.
39.	134552	9-2-72	Coignet S. A., 11 Avenue Myron T. Herrik, T.S.O.O. 8 Paris, France.	Manufacture of concrete mortars.

1	2	3	4	5
40.	135237	11-4-72	Sulzer Brothers Ltd., Winterthur, Switzerland.	Differential gear.
41.	135276	13-4-72	Aristovoulos Q. Petzetakis, Greek National Mosechaten/Pireacus, griecham land, Thessaloniki & Chandri Strasse.	Making internally calibrated push-on socket ends.
42.	135388	8-9-72	Pressure Cookers & Appliances, United India Bldg., Sir P. M. Rd., D. B. 1542 Bombay-1-India.	Manufacture of broad based pot of pressure cookers and the pots so made.
43.	135397	3-5-72	Do.	Manufacture of pots of pressure cookers.
44.	135428	26-4-72	Thomas Walker Ltd., 39, St. Paul's Square Birmingham B3 1Q4, England.	Fastening devices.
45.	135440	15-7-72	Casablancas Ltd., Coronation Rd., London N.W. 10, England.	Textile fibre drafting apparatus.
46.	135450	23-7-71	Ann Sealed Power Corp., 2001 Sanford Street, Muskegon, Michigan 49443, U.S.A.	Manufacture of spacer expanders.
47.	135451	23-7-71	Do.	Do.
48.	135452	23-7-71	Do.	Do.
49.	135453	23-7-71	Do.	Do.
50.	135454	5-7-72	Ruti Machinery Works Ltd., CH-8630, Zurich, Switzerland.	Device for breaking the picker stick of a loom.
51.	135455	29-6-72	Do.	Device for driving loft insectors.
52.	135467	29-4-72	Joseph Lucas (Industries) Ltd., England.	Battery changing system for road vehicles.
53.	135473	25-7-72	Dunlop Ltd., England.	Wheel assemblies.
54.	135474	25-7-72	Do.	Do.
55.	135501	15-5-72	Hans Steager & Manfred Malzacher, (1) of D-7024 Bernhausen, Jolstrasse, & (2) of D-7021 Stuttgart, Obergarten 31, West Germany.	Connecting elements for panels.
56.	135503	12-7-72	U.S.S. Engineers & Consultants Inc, U.S.A.	Expansive cement & method of manufacture.
57.	135547	4-7-72	Tadeusz Sendzimir, 269 Brookside Rd, Waterbury, Connecticut 6720, U.S.A.	Rolling mills.
58.	135603	26-4-72	Heimo-Gerutbau Q.M.B.H. 7972/J.S.M.Y/ Augem, Max-Eythweg 42, G.F.R.	Spraying or smoke laying apparatus.
59.	135605	13-10-72	V. S. Satyanarayana, 38C, Irwin Road, New Delhi, India.	A shock prevention device.
60.	135621	3-7-72	William Pryn Werke A-Q. 519 Stolberg/ Rhld, 2 Weifaller Street 5-7, F.R.Q.	Manufacture of sliding clasp fastener.
61.	135632	30-8-72	British Steel Corp., 33 Grosvenor Place, London S.W.1, England.	Internal bead trimmers.
62.	135635	29-6-72	Trutschler & Co., 82-92, D-4070 Rheydt Odendorfchen, West Germany.	A vehical duct for setting fibrous flock.
63.	135638	13-6-72	Emhart Industries Inc. Connecticut, U.S.A.	Neck ring arm for glassware forming machine.
64.	135643	11-9-72	Dunlop Ltd., England.	Tyres.
65.	135717	16-9-72	Metropolitan Tool & Products Ltd., Lilac Grove, Beeston, Nottingham N.Q.O. 1 P.Q. England.	Drive arrangements for cable reeling drums.
66.	135716	21-8-72	Jervis B Webb Co., 9000 Alpine Avenue, Detroit, Michigan 48204, U.S.A.	Conveyor system.
67.	135751	8-8-72	Timken Co., 1835 Dueber Avenue, S.W. Canton Ohio, U.S.A.	Apparatus for rolling strip material.
68.	135816	13-6-72	Elkem—Speger Verket A/S, Elkemhuset, Middelthunsgate 3, Oslo 3, Norway.	Rotable gestight valve.
69.	135826	24-5-72	Emhart Industries Inc., Connecticut, U.S.A.	Drive for container processing machine.

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70.	135855	3-7-72	Schubert & Salzer Maschinenfabrik Aktien- gesellschaft, West Germany.	Open-end spinning apparatus.
71.	135856	3-7-72	Do.	Fibre making device.
72.	135857	2-6-72	Aktiebolaget Svenska Flaktjabriken, Sickla Allel, Nacka, Stockholm, Sweden.	A process for making paper suitable for calendering & printings.
73.	135881	25-7-72	I. G. Raick & J. R. Wilder & F.R. Piout, all of New Jersey, U.S.A.	Surgical evacuator.
74.	135917	8-6-72	Dunlop Ltd., England.	Tyre building apparatus.
75.	135926	15-11-72	Massey Ferguson services N. V. Autilles Abraham de Veerstraet 7A, Netherlands.	Draft sensing Unit for tractor.
76.	135934	30-5-72	National Institute of Design, Paldi, Ahmedabad-1, Gujarat, India.	A cycle.
77.	135952	25-4-72	Elkem-spiggi Verket A/S, Norway.	Production of refractory material.
78.	135980	24-4-72	The Jacobs Manufacturing Co., Ltd., Archer Tool Works, Archer Road, Sheffield 8, England.	Drill chucks.
79.	135993	26-6-72	U.S.S. Engineers & Consultants Inc., U.S.A.	Temperature sensing device for continuous casting moulds.
80.	136006	12-10-72	Industries Pirelli Societa Per Azioni, Italy.	Pneumatic tyre moulding & curing.
81.	136013	19-5-72	Bau Stahlgewebe Q.M.B.H., 4 Dusseldorf- Oberkassel, Barggraseustrasse, 5, G.F.R.	Continuous heat treatment on bar shaped low carbon structural steels.
82.	136016	3-7-72	Wilhelm Hegler, Bad Kissinger, Geotherstrasse 2, F.R.G.	Production of pipes & tubes of synthetic plastics material containing an internal parting wall.
83.	136033	15-4-72	NL Industries Inc; 33 Broadway, New York NY, 10006, U.S.A.	Multilayer circuit structures and method of making them.
84.	136034	15-4-72	Do.	Sintered unitary ceramic bodies and method of making them.
85.	136038	21-12-72	USS Engineers & Consultants Inc; USA.	Manipulating a hot metal tandish on a gantry car.
86.	136045	13-7-72	Galverbel Mecaniser, 166 Chausse De Lal Hulpe, Watermaelbois fort, Belgium.	Manufacturing sheet glass.
87.	136046	13-7-72	Do.	Manufacturing flat glass.
88.	136084	13-7-72	Do.	Manufacturing sheet glass.
89.	136098	4-7-72	Johnson & Johnson, 501 George Street, New Brunswick, New Jersey, U.S.A.	Dispensing container.
90.	136099	25-8-72	Zimmer Ag; 6 Frankfurt/Mainso, Bersigallce, GFR.	Stretching a cable of polyester threads.
91.	136103	4-1-72	Chicago Pneumatic tool Co. 6th East 44th Street, N.Y.N.Y. 10017, USA.	Crimping mechanism in a nut runne.
92.	136104	4-1-72	Do.	Nut crimping mechanism.
93.	136114	2-6-72	USS Engineers & Consultants Inc; USA.	Laminated Iron Core Induction corner heating unit.
94.	136120	25-7-72	The Air Preheater Co., Andover Rd., Wells-ville, New York, U.S.A.	Rotor for heat exchangers.
95.	136126	16-9-72	Deer & Co., Moline, Illinois, U.S.A.	Self levelling combine.
96.	136127	30-10-72	R. C. A. Corp, 30 Rockefeller Plaza, N.Y. N.Y. 10020, U.S.A.	Method of correcting defective photomark.
97.	136143	17-11-72	U.S.S. Engineers & Consultants Inc, U.S.A.	Bending roll unit for continuous casting machine.
98.	136164	7-7-73	Snampoggetti S.P.A., 16 Corso, Venezia, Milan Italy.	Vehicle.
99.	136171	27-7-72	Industrie Pirelli Societa Per Azioni, Italy.	Pneumatic tyre for vehicle wheels.
100.	136205	13-10-72	Dr. C. Otta & Comp GmbH, West Germany.	Vertical regenerator for horizontal coke-ovens.

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101.	136227	20-6-72	Fichtel & Sachs A-Q, 872 Schweinfurt am Main, Ernst-Sachs-strasse 62, F.R.G.	A combustion engine.
102.	136233	9-5-72	U.S.S. Engineers & Consultants Inc., U.S.A.	Self aligning and flexing glide-role rock for continuous casting machines.
103.	136234	9-5-72	Do.	Continuous casting machine.
104.	136239	27-4-72	Fisons Ltd., 9 Grosvenor Street, London,	Prilling process and prilling head used therefore.
105.	136287	29-8-72	Gerard Blumi, 12 rue Po vt.	Measurement of the area of flat flexible articles.
106.	136299	27-5-72	National Institute of Design, Paldi, Ahmedabad-7, India.	Constructing a frame from an angle section and the frame so made.
107.	136330	15-1-72	Ethicon Inc., Somerville, New Jersey, U.S.A.	Retention suture bridge.
108.	136254	3-5-72	Dunlop Ltd., England.	Pneumatic tyre for aeroplanes.
109.	136387	28-9-72	U.S.S. Engineers & Consultants, Inc, U.S.A.	Continuous casting by means of vertically descending starter bar.
110.	136398	13-12-72	Knoor Biense G.M.B.H., 80 Moosacherstrasse, 8 Munchen 13 F.R.G.	Control bar for pressure air brake installations on railway vehicles.
111.	136404	12-6-72	Thomas Walker Ltd., 39, St. Paul's square, Birmingham B3 1Q.Y., England.	Backing member for garment fastening device.
112.	136413	21-5-73	Siemens AKT, Berlin and Munich, West Germany.	Temperature control system.
113.	136422	11-7-72	S.A. Des Anciens Etalissments Paul Wurth.	Shaft furnace charging equipment
114.	136438	24-4-72	Sham Progetti S.P.A. of Italy and Protezione Ricerca Industrial S.A. Switzerland.	A microcontainer.
115.	135448	22-12-72	U.S.S. Engineers & Consultants, Inc, U.S.A.	Cutting continuously formed casting into short length segments.
116.	136454	12-6-72	James Alexander MacKenzie, 100 Bronscoe Avenue Ottawa, Ontario, Canada.	Constructional element.
117.	136481	14-6-73	Snamprogetti S.P.A., Italy.	Continuous bi-compound acrylic-bulky yarn.
118.	136482	10-11-72	Industrie Pirelli Societa Per Azioni, Italy.	Radial Ply pneumatic tyres.
119.	136527	15-2-73	Kao Soap Co. Ltd., 7-18, 1-chome, Nihonbashi-Bakurocho, Chuo-ku-Tokyo, Japan.	Preparation of slates of sandwich arrangement.
120.	136531	26-4-73	Ishikawajima-Harima Jukogyo K. K., 2-1 Chome, Ote-machi, Chiyoda Ku, Tokyo-To, Japan.	Furnace.
121.	136539	3-8-72	Binks Bullows Ltd., Pelsoll Rd, Brownhills Staffsfordshire, WS 87H. W., England.	Liquid spraying apparatus.
122.	136562	15-1-73	The Joseph Lucas (Electrical) Co. Ltd., England.	Cam assembly for an ignition distributor.
123.	136575	14-8-72	U.S.S. Engineers & Consultants Inc, U.S.A.	Apparatus for straightening continuous castings.
124.	136584	27-9-72	The Lucas Electrical Co. Ltd., England.	Bearing assembly.
125.	136587	20-2-73	Flitex Lavody Textilnino Strojirney, Liberec Czechoslovakia.	Washing rotary stencils for printing Veb materials, particularly textiles.
126.	136594	15-1-73	The Joseph Lucas (Electrical) Co. Ltd., England.	Ignition distributors.
127.	136595	12-2-73	Do.	Do.
128.	136612	24-7-72	D. H. Prowse & Co., Ltd, Ketys Studies, Ballshill, Redhill, Surrey, England.	Abrasive articles for polishing, grinding or like.
129.	136623	27-5-72	U. S. S. Engineers & Consultants Inc, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.
130.	136633	11-5-73	The Goodyear Tire & Rubber Co., 1144, East Market St, Akron, Ohio, U.S.A	Monitoring the condition between two elements in vehicle.
131.	136642	14-7-72	Kawada Kogyo K.K, 4610 Nojima Fukunomachi, Teyamaken, Japan.	Composite beam made of steel beam & prestressed & concrete and method of its manufacture.
132.	136652	5-7-72	N. V. Hollandse Signal Apparaten, 402 Widelijke Hengels Co., Netherlands.	Manufacture of yarn.
133.	136655	25-10-72	Sealed Power Corp., 2001 Sanforce Street, Muskegon, Michigan 49443, U.S.A.	Piston for combustion engines.

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134.	136701	12-5-72	Thomas J. Dillon & Co., 1730 Akron Peninsula Rd., Akron, Ohio, U.S.A.	Modulator building for use on a prepared foundation site.
135.	136703	5-8-72	G K.N. Transmission Ltd., Charter Rd., Erdington.	The connection of resiliently deformable sealing members to generally cylindrical articles.
136.	136713	27-2-73	Emhart Industries Inc, 950 Cottage Grove Rd., Connecticut, U.S.A.	Apparatus for tracking and probing articles.
137.	136729	26-7-72	Sealed Power Corp., 2001 Sanford Street, Muskegon, Michigan 49443 U.S.A.	Making latch in piston ring expander.
138.	136735	9-11-72	Ruti Machinery Works Ltd., Switzerland.	Clamping device on a shuttle.
139.	136740	27-9-72	C.A. Norgren Ltd., 192-198 Wauxhall Bridge Rd., London, S.W. 1, England.	Valve device for draining liquid contaminant collected from compressed gas.
140.	137361	11-1-73	Abex Corp., 530 Fifth Avenue, N.Y., N.Y., U.S.A.	Manufacture of friction elements for vehicle brake linings and the like.
141.	137375	28-12-72	C.S.I.R., Rafi Marg, New Delhi, India.	Constructing thin impermeable and durable cut-off walls.
142.	137383	7-2-73	Box Innards, Inc, P. O. Box 4347, Anaheim, California 92803, U.S.A.	Intermittent drive structure.
143.	137398	3-5-73	Arcan Eastern Ltd., 77, Niagara Street, Hamilton, Ontario, Canada.	Connector mechanism.
144.	137399	6-2-73	Box Innards Inc, U.S.A.	Machine for creating divider structures such as are used as internal partitions within box.
145.	137446	9-10-72	Foster Wheeler Corp., 110, South Orange Avenue, Livingston, N. Jersey, U.S.A.	Fluidized bed reactor.
146.	137472	14-11-72	Westinghouse Electric Corp., Pittsburgh, Pennsylvania, U.S.A.	Sensing system for cut-to-length shear.
147.	137482	5-1-73	B.O.C. Ltd., Hammersmith House, London W. 69 B. X, England.	Vacuum-insulated vessel with coated shell and method of making the same.
148.	137488	5-1-73	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629 U.S.A.	Hydraulic circulatory for an excavator.
149.	137489	5-1-73	Do.	Swing transmission for excavators.
150.	137338	21-1-74	C.S.I.R. Rafi Marg, New Delhi, India.	A device for assessing daylight availability and for sunlight penetration.
151.	138158	29-10-73	Thermo King Corp., 314 West, 9th Street, Minneapolis, Minnesota, U.S.A.	Heat exchanger defrost apparatus.
152.	141826	7-6-76	Dr. C. Otto and Comp. G. M. B. H., West Germany.	Slag bath generator.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC
(PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—
140728.—M/s. Gould Inc.

RENEWAL FEES PAID

93067 93092 93122 93143 93150 93301 93319 93520 93636
93875 94000 94090 94091 94322 95608 98602 98760 98802
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 143184 143188 143201 143243 143284 143287 143340 143352
 143373 143445 143477 143478 143520 143560 143665 143661
 143673 143678 145413 145422.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Nil

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Design Nos. 141248, 141249, 141464, 141496 & 145218.— Class 1.

Design Nos. 140855, 141342, 141370, 141371, 141428, 141429, 141430, 141431, 141432 & 141470.— Class 3.

S. VEDARAMAN
 Controller General of Patents, Designs and
 Trade Marks

